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Claims

1. Method for testing an appliance (1) having a smart card reader (4) for operation with a smart card,

comprising the steps

using a test adapter (2) with contacts (C1 - C8) as an interface, which is inserted into the smart card reader (4) for testing of the appliance (1) and using a contact (C6) of the smart card reader (4) for testing of the appliance (1), which is not used by the appliance (1) during operation with a smart card.

- 2. Method according to claim 1, characterized in that one of the smart card contacts (C6) used for testing of the appliance (1) is the smart card contact for the programming voltage VPP.
- 3. Method according to claim 2, characterized in that the test adapter (2) is coupled via a cable (10) to a computer (3), and that as a further smart card contact (C7) for testing of the appliance (1) a contact for data in/out (C7) is used, for operation of the test adapter (2) as a serial interface in connection with the computer (3).

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- 4. Method according to one of the preceding claims, characterized in that the appliance (1) is a digital set—top box or a digital satellite receiver and the method for testing of the appliance is a Factory Functional Test or an aftersales diagnostics test.
- 5. Test adapter for a method according to one of the preceding claims, characterized in that the test adapter (2) comprises contacts (C1 C8), which are arranged according to a smart card standard on a part (6) of the test adapter (2), and which part (6) is

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suitable for inserting into the appliance (1) for contacting the contacts (C1 - C8) of the smart card reader (4).

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- 5 6. Test adapter according to claim 5, characterized in that the part (6) with the contacts (C1 C8) for inserting into the appliance (1) has a thickness in accordance with a smart card to be used with the appliance (1), and that the test adapter (2) comprises further a second part (7) with a serial adapter interface (5), especially a EIA-RS232 to ISO 7816-3 interface, for a connection to a computer (3).
- 7. Appliance with a smart card reader (4) for an operation with a smart card, characterized in that one contact (C6) of the smart card reader (4), which is not used by the appliance (1) during normal operation with a smart card, is usable for testing of the appliance (1).
- 20 8. Appliance according to claim 7, characterized in that one of the smart card contacts (C6) used for testing of the appliance (1) is the smart card contact for the programming voltage VPP.
- 25 9. Appliance according to claim 8, characterized in that the contacts used for testing of the appliance (1) are a supply voltage input (C1), the programming voltage VPP (C6), a data In/Out contact (C7) and ground (C8).
- 10. Appliance according to claim 9, characterized in that the contact (C7) for data In/Out is coupled to a buffer circuit (IC1), and after amplification by the buffer circuit (IC1) is coupled to a DIN contact (DIN) as well as to a receive contact of a RS232 internal interface.

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11. Appliance according to one of the preceding claims 7 to 10, characterized in that the appliance (1), after insertion of a smart card (S1), provides a smart card activation with a reset (S2), and in a further step, when the answer to the reset is negative (S3), the appliance (1) provides a test mode initialisation (S5) for a test with a computer (3) via a test adapter (2) to be inserted into the smart card reader (4):

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12. Appliance according to one of the preceding claims 7 to 11, characterized in that the appliance (1) is a digital set-top box or a digital satellite receiver and the method for testing of the appliance is a Factory Functional Test or an aftersales diagnostics test.